Fig. 1
PRIOR ART

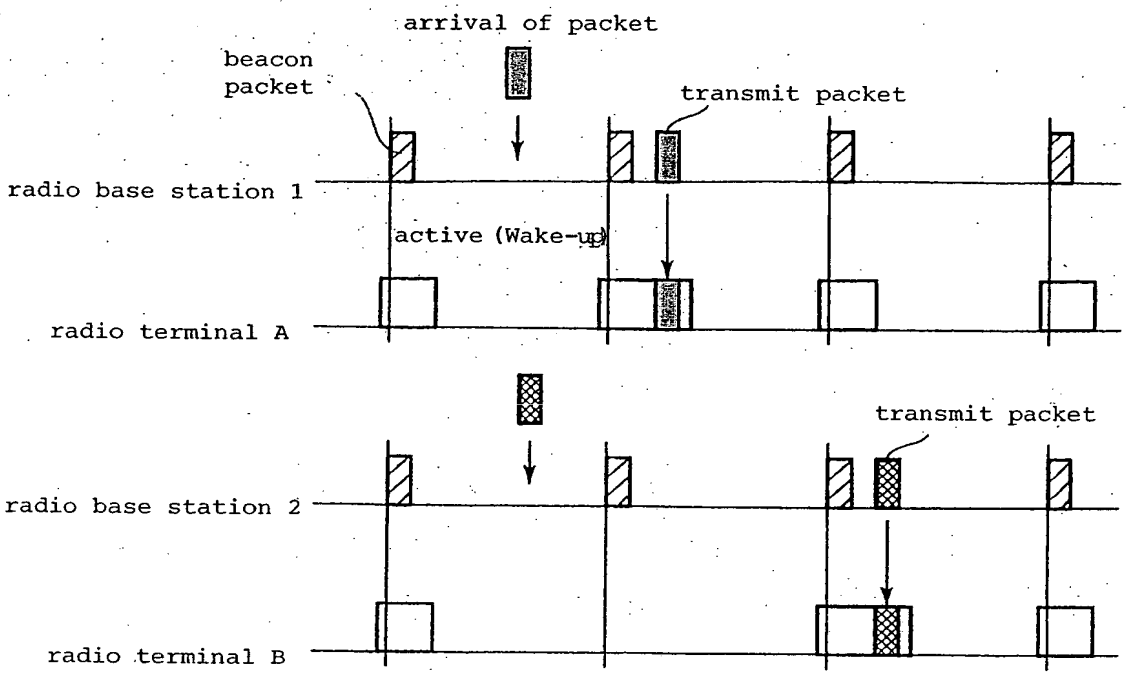


Fig. 2
PRIOR ART

	R value	end-to-end delay	loss probability
class A	>80	<100ms	<=0.15
class B	>70	<150ms	<=0.15
class C	>50	<400ms	<=0.15

Fig. 3

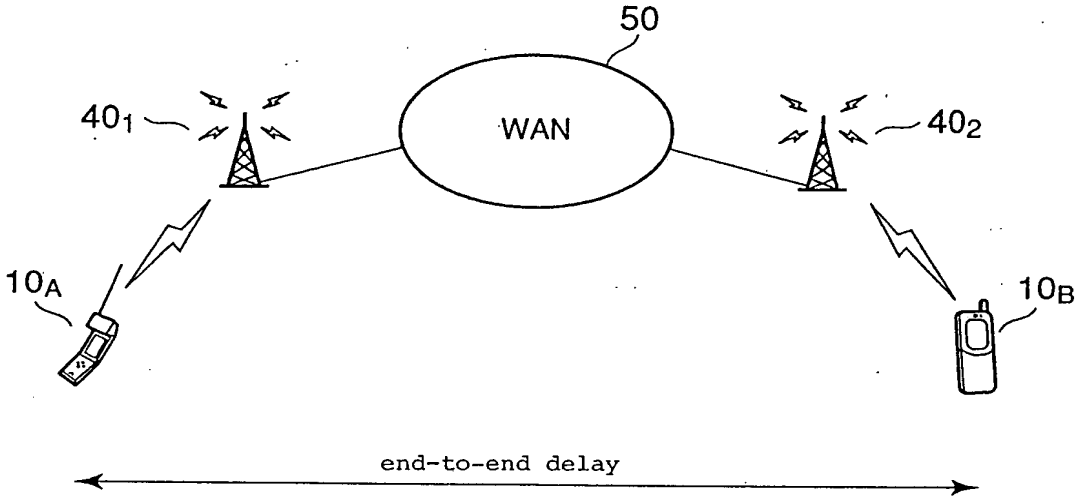

50
WAN
40_1
40_2
10_A
10_B
end-to-end delay

Fig. 4

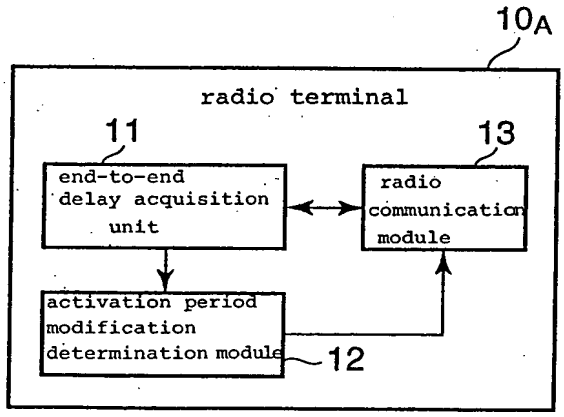

10_A
radio terminal
11
13
end-to-end delay acquisition unit
radio communication module
activation period modification determination module
12

Fig. 5

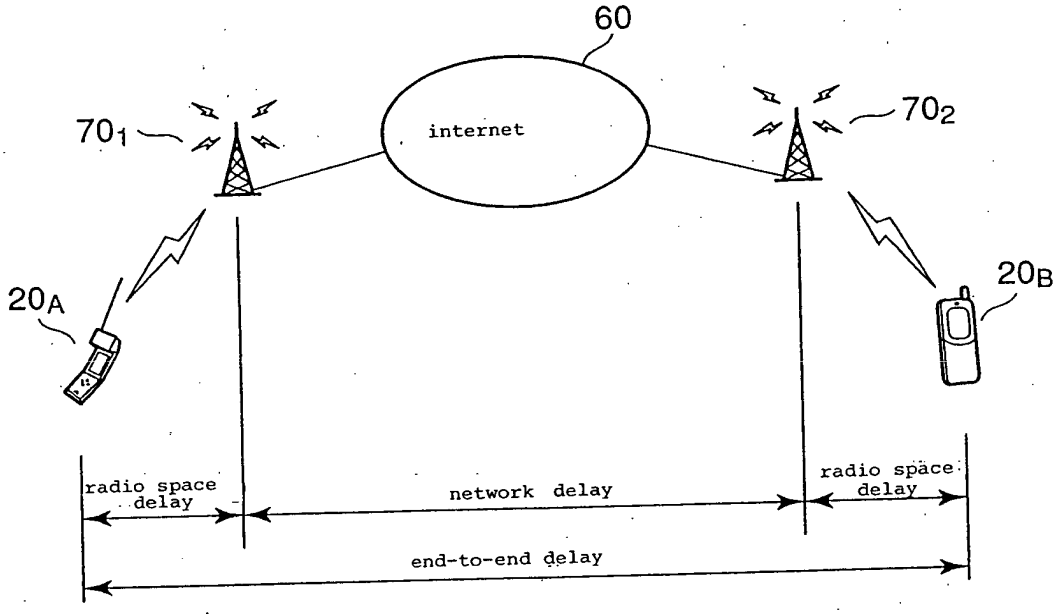

60
internet
70_1
70_2
20_A
20_B
radio space delay
network delay
radio space delay
end-to-end delay

Fig. 6

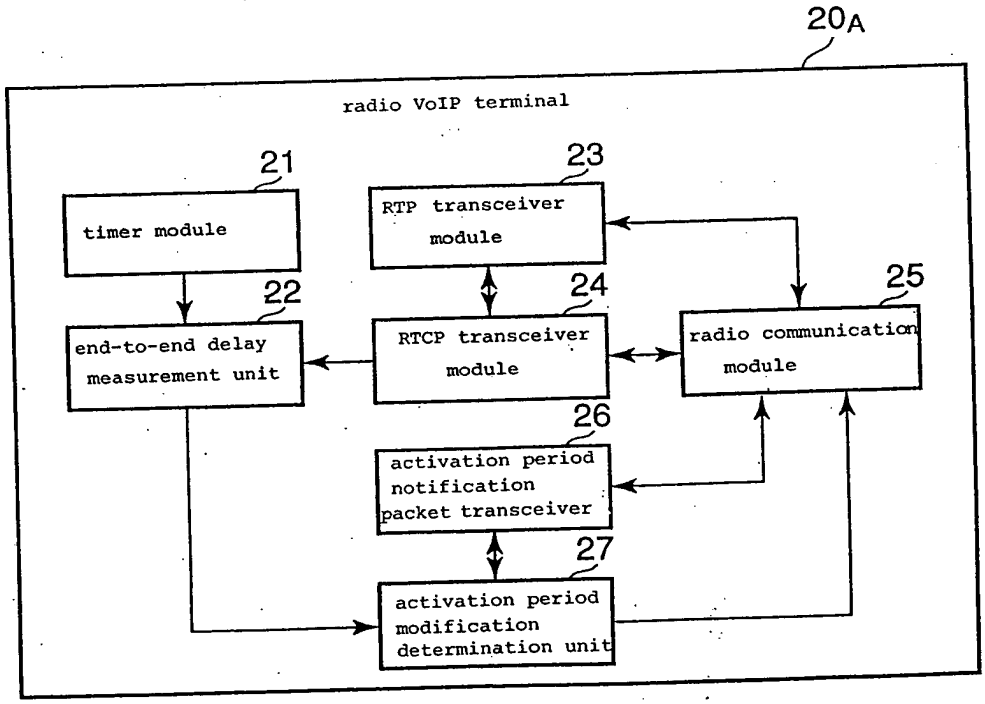

20_A
radio VoIP terminal
21
timer module
23
RTP transceiver module
22
end-to-end delay measurement unit
24
RTCP transceiver module
25
radio communication module
26
activation period notification packet transceiver
27
activation period modification determination unit

Fig. 7

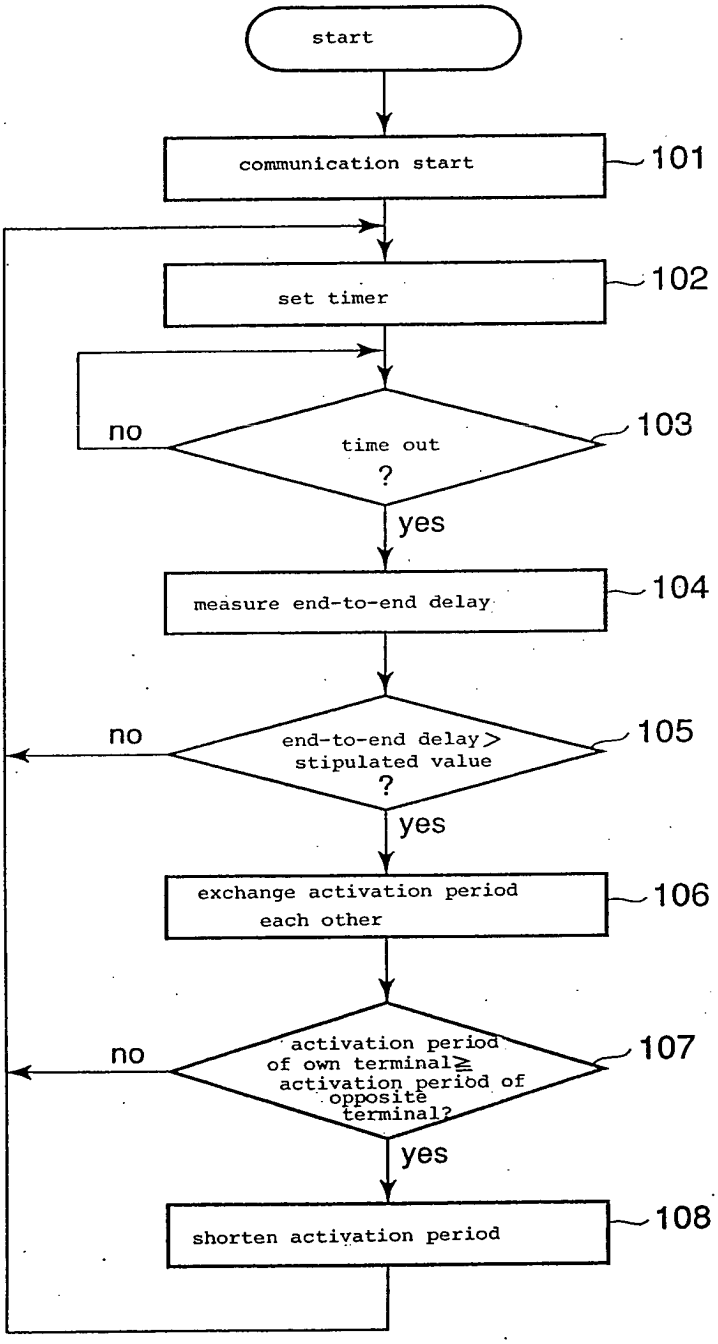

start
communication start
101
set timer
102
no
time out ?
103
yes
measure end-to-end delay
104
no
end-to-end delay > stipulated value ?
105
yes
exchange activation period each other
106
no
activation period of own terminal ≧ activation period of opposite terminal?
107
yes
shorten activation period
108

Fig. 8

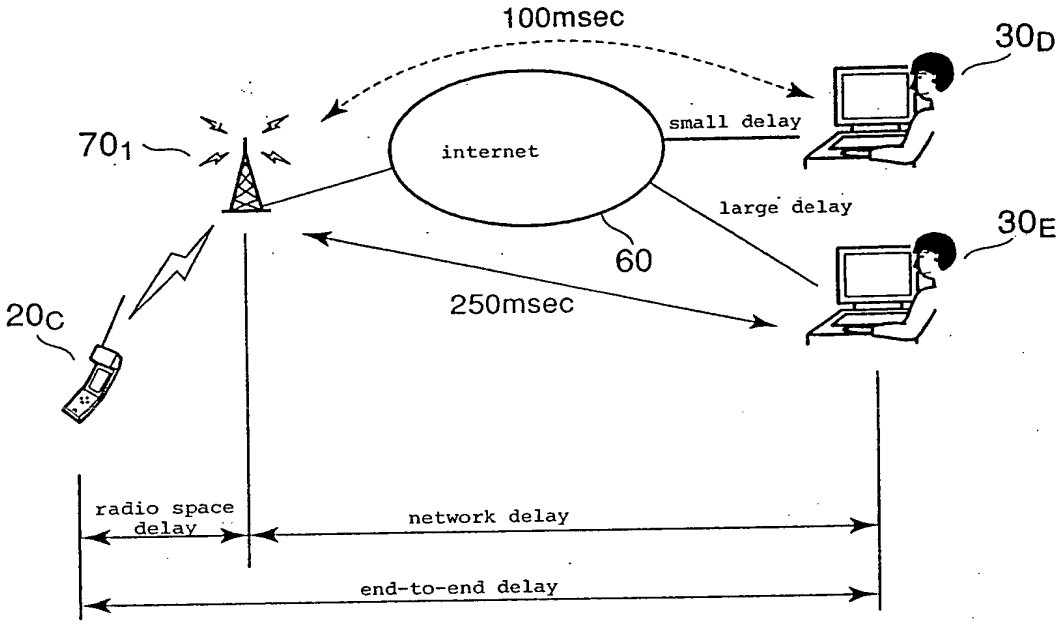

100msec
30D
70₁
internet
small delay
large delay
30E
60
250msec
20C
radio space delay
network delay
end-to-end delay

Fig. 9

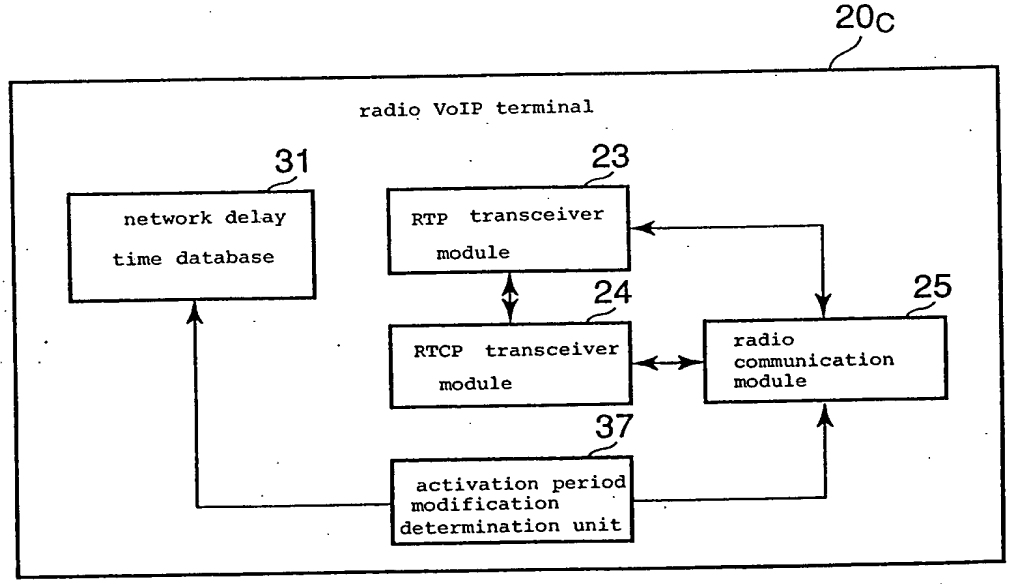
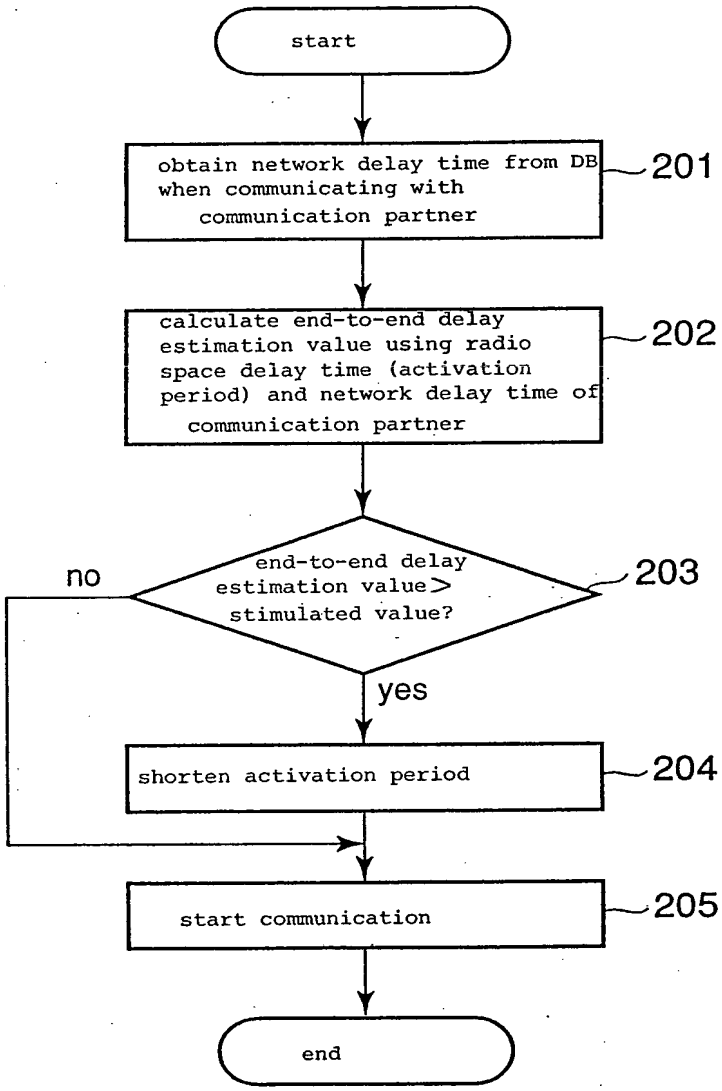

20C
radio VoIP terminal
31
network delay time database
23
RTP transceiver module
24
RTCP transceiver module
25
radio communication module
37
activation period modification determination unit

Fig. 10


start
obtain network delay time from DB when communicating with communication partner
201
calculate end-to-end delay estimation value using radio space delay time (activation period) and network delay time of communication partner
202
end-to-end delay estimation value > stimulated value?
203
no
yes
shorten activation period
204
start communication
205
end